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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/865,166	. 05/24/2001	Raymond T. Hsu	PA010115	2831
	7590 04/11/200 INCORPORATED	7 '	EXAMINER RYMAN, DANIEL J	
5775 MOREHO	OUSE DR.			
SAN DIEGO, C	A 92121		ART UNIT	PAPER NUMBER
			2616	
SHORTENED STATUTORY	Y PERIOD OF RESPONSE	NOTIFICATION DATE	DELIVERY MODE	
3 MON	NTHS	04/11/2007	ELECTRONIC	

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•		Application No.	Applicant(s)			
•		09/865,166	HSU ET AL.			
	Office Action Summary	Examiner	Art Unit			
	•	Daniel J. Ryman	2616			
Period fo	- The MAILING DATE of this communication	appears on the cover sheet w	ith the correspondence address	••		
A SHO WHIC - Exten after: - If NO - Failur Any ro	DRTENED STATUTORY PERIOD FOR RE HEVER IS LONGER, FROM THE MAILING sions of time may be available under the provisions of 37 CFI SIX (6) MONTHS from the mailing date of this communication period for reply is specified above, the maximum statutory pe e to reply within the set or extended period for reply will, by st eply received by the Office later than three months after the m d patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUNI R 1.136(a). In no event, however, may a . riod will apply and will expire SIX (6) MOI atute, cause the application to become Al	CATION. reply be timely filed NTHS from the mailing date of this communic BANDONED (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on 1	4 February 2007.				
	•	This action is non-final.				
3)	Since this application is in condition for allo	wance except for formal mat	ters, prosecution as to the merit	ts is		
	closed in accordance with the practice und	er <i>Ex par</i> te Quayle, 1935 C.E	). 11, 453 O.G. 213.			
Dispositi	on of Claims					
5)⊠ 6)⊠ 7)⊠	Claim(s) <u>See Continuation Sheet</u> is/are per 4a) Of the above claim(s) is/are with Claim(s) <u>94,100,101,112,118-120 and 126</u> Claim(s) <u>1,7,8,19,25-27,33-37,43-45,51,52</u> Claim(s) <u>1,19,27,35-37,43-45,54,55,66,76,</u> Claim(s) are subject to restriction and	drawn from consideration. -128 is/are allowed. .54,55,66-68,74-76,82 and 8. 94,112,120 and 128 is/are ob	•			
Application	on Papers					
9) 🔲 -	The specification is objected to by the Exam	niner.				
10) 🔲 -	10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
	Applicant may not request that any objection to	* ' '				
	Replacement drawing sheet(s) including the cor The oath or declaration is objected to by the					
Priority u	nder 35 U.S.C. § 119					
a)[	Acknowledgment is made of a claim for fore All b) Some * c) None of:  1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the papplication from the International But ee the attached detailed Office action for a	nents have been received. The sents have been received in Appropriate the sent of the sent	Application No  received in this National Stage			
Attachment		🗖				
2) Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) No(s)/Mail Date	Paper No(	Summary (PTO-413) s)/Mail Date nformal Patent Application			

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#### **DETAILED ACTION**

### Response to Arguments

- 1. Examiner acknowledges Applicant's filing of an RCE on 14 February 2007
- 2. Applicant's arguments with respect to claims 1, 7, 8, 19, 25-27, 33-37, 43-45, 51, 52, 54, 55, 66-68, 74-76, 82 and 83 have been considered but are moot in view of the new ground(s) of rejection.

## Claim Objections

- 3. Claims 1, 19, 27, 35, 45, 66, 76, 94, 112, 120, and 128 are objected to because each of these claims recites "a Point-to-Point Protocol link having an Internet Protocol Address" or a variation thereof. The Specification discloses that the endpoints of the PPP link have IP addresses, not the link itself. Specification: ¶ [1085]. Therefore Examiner suggests changing "a Point-to-Point Protocol link having an Internet Protocol Address" to "a Point-to-Point Protocol link having endpoints having an Internet Protocol Address". Appropriate correction is required.
- 4. Claims 36, 37, 43, and 44 are objected to because of the following informalities: in line 1 of each of these claims, "method of claim 35" should be "system of claim 35" since claim 35 recites a system rather than a method. Appropriate correction is required.
- 5. Claims 54 and 55 are objected to as being substantial duplicates of claims 51 and 52, respectively.

#### Claim Rejections - 35 USC § 101

6. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

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- 7. Claims 1, 7, 8, 19, 25-27, 33-37, 43-45, 51, 52, 54, 55, 66-68, 74-76, 82 and 83 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.
- 8. To comply with the subject matter eligibility requirement of 35 U.S.C. § 101, a claim must pass the following test: (1) Does the claimed invention fall within one of the statutory classes? If not, then the claim is non-statutory. (2) If it does, does the claimed invention fall/cover/include a judicial exception? If not, the claim is statutory. If so, the claim is only statutory if there is a practical application (a) by physical transformation or (b) that produces a useful and tangible result.
- 9. In this case, claims 1, 7, and 8 (directed to a method); claims 19, 25, and 26 (directed to a method); claims 27, 33, and 34 (directed to a method); claims 35-37, 43, and 44 (directed to a device); claims 45, 51, 52, 54, and 55 (directed to a device); claims 66-68, 74, and 75 (directed to a node); and claims 76, 82, and 83 (directed to a device) meet Question One since they fall within either the "process" or "machine" statutory classes of 35 U.S.C. § 101. However, these claims fail Question Two since they fall within a judicial exception, i.e. the claims are an attempt to seek patent protection of a computer program in the abstract. This is evidenced by claims 94, 100, 101, 112, 118-120, 126 and 127 which demonstrate that the method and programs implemented by the devices are implemented using computer programs. Since the claims are merely trying to claim a "computer code" in the abstract, the claims fall within the "abstract idea" judicial exception.
- 10. Once the answer to Question Two is "yes," i.e. the claimed invention falls under a judicial exception, the claimed invention is only statutory if it produces either a practical

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application by physical transformation or a practical application that produces a useful and tangible result. In this case, there is no practical application by physical transformation since the software does not manipulate any physical structure and since the structure of the machines in each of these claims does not change. In addition, there is no practical application that produces a useful and tangible result since, when implemented in software, the claims never require that the software be executed by a computer. Therefore, the claims are non-statutory.

In order to make these claims statutory, Applicant could amend the claims to turn the method steps into structural limitations, e.g. "means for establishing" or "means for differentiating". Applicant could also amend the claims to turn the claims into a purely "software" claim by amending the claims to read, for example, "A computer-readable medium encoded with a data structure [or software] for utilizing a single Internet Protocol address for multiple Point-to-Point Protocol instances between a single wireless device and a wireless network."

### Allowable Subject Matter

12. Claims 94, 100, 101, 112, 118-120, and 126-128 are allowed. The prior art does not disclose or fairly suggest differentiating the endpoints of multiple PPP links using a link characteristic including at least one of a compression type, encryption level, RLP transmission delay, and guaranteed delivery level.

## Conclusion

13. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Warrier et al. (USPN 6,684,256) see col. 1, line 52-col. 2, line 51, which details

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distinguishing between multiple PPP links having the same associated IP address through unique pairs of home IP addresses and home agent IP addresses.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel J. Ryman whose telephone number is (571)272-3152. The examiner can normally be reached on Mon.-Fri. 8:00am-4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy Vu can be reached on (571)272-3155. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Daniel J. Ryman Examiner Art Unit 2616

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Continuation of Disposition of Claims: Claims pending in the application are 1,7,8,19,25-27,33-37,43-45,51,52,54,55,66-68,74-76,82,83,94,100,101,112,118-120 and 126-128.